

## Abstract of the Disclosure

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A tandem type printer is provided with a plurality of scanning optical systems, a plurality of  $f\theta$  lenses and photoconductive drums, which correspond to the scanning optical systems, respectively. Each scanning optical system includes a laser source and a deflector that deflects the laser beam emitted by the laser source to scan, in a main scanning direction, within a predetermined angular range. The deflected laser beam is converged by the  $f\theta$  lens on the corresponding photoconductive drum and form an image. Images formed on the plurality of photoconductive drums are developed and transferred on a sheet in an overlaid fashion. Each  $f\theta$  lens includes a glass lens that is burdened with substantially all the power, in the main scanning direction, of the  $f\theta$  lens, and a plastic lens that is burdened with compensation for aberrations of the  $f\theta$  lens. Further, a diffraction lens structure is formed to compensate for a lateral chromatic aberration of the  $f\theta$  lens in the main scanning direction. Each  $f\theta$  lens satisfies conditions:

$$0.0 < f_a/f_d < 0.20; \text{ and}$$

$$0.75 < f_a/f_g < 1.20,$$

where,  $f_a$ ,  $f_d$  and  $f_g$  represent focal lengths of the  $f\theta$  lens, diffraction lens structure, and glass lens, in the main scanning direction, respectively.